ASSIGNMENT 5

Textbook Assignment: "Wood and Light Frame Structures." Pages 6-1 through 6-51.

- Of all the construction material. 5-1. what material is considered the most often used and the most important?
 - Wood
 - 2. Steel
 - 3. Concrete
 - 4. Plastic
- In small construction projects that do NOT have written specifications included, where should you be able to find the type and classification of wood?
 - In the drawings themselves 1.
 - In the bill of materials 2.
 - In the special standards 3.
 - In the special information sheets attached to the drawings
- In construction, the terms "wood," "lumber" and "timber" have distinct and separate meanings. Which of the 5-3. following definitions is an accurate description?
 - Wood is a soft, nonfibrous substance
 - Timber is lumber with a dimension of not less than 5 inches
 - Lumber is trees that have not been cut
 - 4. Wood is lumber that has been made into manufactured products
- 5-4. "Millwork" is best defined by which of the following descriptions?
 - Wood selected for sawmill work
 - Timber made into lumber
 - 3. Lumber made into manufactured products
 - Wood after it has been through the sawmill
- In what way, if any, can the nominal size of lumber be compared to its dressed size?
 - It is larger
 - 2. It is the same
 - 3. It is smaller
 - 4. It cannot be compared

- What designation applies to wood 5-6. surfaced on two sides only?

 - S2E 2.
 - SS2 3.
 - 4. 2SS
- In which of the following ways is lumber designated on drawings and purchase orders?
 - 1. Dressed only
 - 2. Nominal only
 - Dressed or nominal, whichever 3. you chose

IN ANSWERING QUESTIONS 5-8 AND 5-9, REFER TO TABLE 6-2 IN YOUR TEXTBOOK.

- What are the dressed dimensions of a 5-8 1- by 8-inch board?

 - 2.
 - 1 by 8 in 1 by 7 1/2 in 3/4 by 7 1/2 in 3.
 - 3/4 by 7 1/4 in
- 5-9. What are the dressed dimensions of a 2- by 4-inch, S4S board?
 - 1. by
 - by 3 1/2 in 2. 2
 - 3.
 - 1 1/2 by 3 1/2 in 1 1/2 by 3 1/4 in
- 5-10. Manufactured lumber, when classified according to its use, falls into what three categories?
 - Boards, dimension, and timbers
 - 2. Rough, dressed, and worked
 - 3. Yard, structural, and factory
 - 4. Boards, shop, and yard
- 5-11. When you want lumber to show its natural finish, what grade(s) should you use?
 - A only
 - 2. B only
 - 3. A or B, whichever you prefer
 - 4. C
- When grain-tight lumber is required, 5-12. what type of lumber is normally used?
 - 1. No. 1 common
 - 2. No. 2 common
 - 3. Grade A select
 - 4. Grade B select

- - 1. Factory
 - 2. Structural
 3. Shop
 4. Yard
- To find the board foot measurement 5-14. of lumber, what formula should you 5-20. How are plywood panel grades
 - 1. Thickness(in.) X width(in.) X length(in.)
 - 2. Thickness(in.) X width(in.) X length(in.)
 - 3. Thickness(in.) X width(in.) X length(ft)
 - 4. Thickness(in.) X width(in.) X length(ft)
- When computing the amount of board 5-15. feet in a dressed 2- by 4-inch board, which of the following dimensions should you use?

 - 1. 1 3/4 by 3/4 in 2. 2 by 4 in

 - 3. 1 5/8 by 3 5/8 in 4. 1 7/8 by 3 5/8 in
- When you are laminating lumber, how are the laminations (pieces) fastened together?
 - 1. Nailed and glued together, with the grain of all pieces running perpendicular
 - 2. Nailed or glued together, with the grain of all pieces running parallel
 - 3. Nailed, bolted, or glued together, with the grain of all pieces running perpendicular
 - 4. Nailed, bolted, or glued together, with the grain of all 5-23. Which of the following types of pieces running parallel
- Which of the following 5-17. characteristics applies to plywood?
 - 1. Punctureproof

 - Resists splitting
 Pound for pound one of the strongest materials available
 - 4. Both $\frac{1}{2}$ and 3 above
- 5-18. Plywood is used for which of the following purposes?

 - Formwork
 Sheathing
 Furniture
 Each of the above

- 5-13. Which type of lumber is primarily 5-19. What are the two most common sizes graded by its allowable stresses? of plywood sheets available for use of plywood sheets available for use in construction?
 - 1. 3 by 6 ft and 4 by 8 ft 2. 4 by 8 ft and 4 by 10 ft 3. 4 by 8 ft and 4 by 12 ft 4. 4 by 10 ft and 4 by 12 ft

 - generally designated?
 - 1. By the grade of veneer on the face only
 - 2. By the kind of glue only
 - 3. By the grade of veneer on the face and back only
 - 4. By the kind of glue and the grade of veneer on the face and back

IN ANSWERING QUESTION 5-21, REFER TO FIGURE 6-6 IN YOUR TEXTBOOK.

- 5-21. What plywood veneer grade allows knotholes up to 2 1/2 inches in width and under certain conditions up to 3 inches?
 - 1. A

 - 2. B 3. D 4. N

 - 5-22. When index numbers 48/24 appear on a grading identification stamp, what does the number 24 represent?
 - 1. Minimum on-center spacing of supports for subfloors
 - 2. Maximum on-center spacing of supports for roof decking
 - 3. Maximum on-center spacing of supports for subfloors
 - 4. Maximum on-center spacing of supports for wall studs
 - plywood panels is/are recommended for use in cabinets?
 - 1. Standard plywood sheathing
 - 2. Decorative panels only
 - 3. Overlaid panels only
 - 4. Decorative panels and overlaid panels
 - 5-24. Which of the following types of wood substitutes provides good fire resistance?
 - 1. Fiberboard
 - 2. Gypsum wallboard
 - 3. Particleboard 4. Hardboard

- 5-25. The type and amount of wood treatment is normally given in the project specifications. When no written specifications exist, where should you be able to find the wood treatment required?
 - Bill of materials
 - 2. Commercial standards
 - 3 Drawings
 - American Plywood Association
- In platform construction, what is 5-26. the first wood structural member to be set in place?
 - Header 1.
 - 2. Joist
 - 3. Soleplate
 - 4. Sill
- 5-27. What is the difference between a common joist and a cripple joist?
 - A cripple joist extends the full span, but a common joist does
 - A common joist extends the full span, but a cripple joist does not
 - 3. A cripple joist may be supported by a girder, but a common joist is never supported by a girder
 - 4. Common joists are supported by pilasters, while cripple joists are not
- 5-28. At a door opening in an exterior wood-framed wall, the names of the horizontal members that connect at the (a) top and (b) bottom of the cripple studs are
 - 1. (a) header
- (b) soleplate

- (a) top plates (b) soleplate
 (a) top plates (b) header
 (a) header (b) sill 3.
- 4.
- 5-29. Frame structures are commonly brat.ad by use of which of the following methods?
 - Diagonal bracing
 Let-in bracing

 - 3. Cut-in bracing
 - 4. All of the above
- What is the rise per unit of run for 5-30. a 1/4 pitch roof?
 - 1. 12 in
 - 2. 6 in
 - 8 in 3.
 - 4. 4 in

- 5-31. What is the rafter whose lower end rests on the top plate and whose upper end rests against a hip rafter?
 - 1 Common
 - 2. Valley jack
 - 3. Hip jack
 - Cripple jack 4
- 5-32. What rafter does NOT meet either the top plate or the ridgeboard?
 - Common jack
 - 2. Cripple jack
 - Valley jack 3.
 - 4. Hip jack
- 5-33. For what purpose are purlins used in wood frame construction?
 - To serve as a nailer for roofing
 - 2. To act as a structural connector
 - 3. To support rafters
 - To serve as bracing for rafters
- 5-34. On flat or nearly flat roofs, what type of roof covering is generally used?
 - Galvanized iron sheets
 - 2. Asphalt shingles
 - 3. Tile
 - 4. Built-up
- 5-35. On a built-up roof, what material provides the weathering surface?
 - Asphalt shingles
 - Aggregate 2.
 - 3. Roofing felt
 - Asphalt binder
- 5-36. On a boxed cornice, what is the trim that is nailed to the rafter ends?
 - Frieze 1
 - 2. Crown molding
 - 3. Fascia
 - 4. Plancier
- A gable roof has a total of how many 5-37. eaves?
 - 1 Five
 - 2. Two
 - Three 3.
 - Four
- 5-38. What type of common siding comes in lengths of more than 4 feet and widths of 8 inches or less?
 - 1. Bevel
 - 2. Drop
 - Clapboard

- 5-39. conditions is NOT prevented by the installation of vapor barriers and insulation?
 - Heat loss
 - 2. Heat gain
 - Moisture seepage 3.
 - 4. Condensation
- 5-40. What elements are the two principal parts of a stairway?
 - Stringers and risers
 - 2. Treads and risers
 - 3. Treads and stringers
 - 4. Stringers and nosing
- What type of stairway continues in a 5-41. straight line from one floor to the next?
 - Change
 - 2. Cleat (open-riser)
 - 3. Platform
 - 4. Straight-flight
- A platform is needed between floors 5-42. in what type of stairway?
 - 1. Straight-flight
 - 2. Platform
 - 3. Reverse
 - Directional 4
- In a structure, what are the two 5-43. categories of stairs?
 - Principal and service
 - 2. Main and porch
 - 3. Basement and attic
 - 4. Front and rear
- 5-44. What stairs extend between floors above the basement and below the attic?
 - 1. Basement
 - 2. Porch
 - 3. Attic
 - 4. Principal
- Which of the following types 5-45 of stairs is a service stair?
 - Porch 1
 - 2. Principal
 - Personnel 3.
 - 4. Equipment
- Into what two types, if any, is 5-46. finish flooring broadly divided?
 - 1. Resilient and carpet
 - Wood and concrete 2.
 - 3.
 - Resilient and wood None; it is not divided

- In an attic, which of the following 5-47. What is the primary difference between exterior and interior flush doors?
 - An exterior flush door always swings to the outside of a building
 - Exterior flush doors have a solid core
 - Plywood is never used as the outside face of an exterior flush door
 - 4. Interior flush doors may be fabricated on the construction site, but exterior flush doors are always factory-assembled
 - What are the principal parts of the 5-48. frame of an inside door?
 - Head jamb and side jambs only
 - Head and side jams and head and side casings
 - Sill, head jamb, and side casings
 - Sill, side jambs, and head casing
 - 5-49. What part of a window forms a frame for the glass?
 - 1. Casement
 - 2. Sash
 - 3. Frame
 - Finish
 - What type of window contains several 5-50. horizontal hinged sashes that open and close together?
 - 1. Casement
 - Louver 2.
 - Jalousie 3.
 - Double-hung
 - 5-51. In construction drawings, the window schedule provides what type of information?
 - Type of windows
 - Size of windows
 - Number of panes of glass for each window
 - Each of the above
 - 5-52. When the figure 6/12 appears on one of the lights in the window schedule, the dimensions of the glass are what type?
 - 1. Nominal
 - Rough
 - Actual 3.
 - Finish

- 5-53. In interior trim, which of the In interior trim, which of the following items is/are considered to be the most prominent?
 - Inside door casing only 1.
 - Window casing only
 - Inside door and window casings 3.
 - 4. Doorframes
- 5-54. In the building construction trade, which of the following items are considered to be hardware?

 - Sliding door supports
 Fastenings for screens
 Strike plates

 - 4. All of the above
- Of the following materials, which are considered to be finishing hardware?
 - Fastenings for screens 5-62.

 - 2. Sliding door supports
 3. Folding door supports
 4. Automatic exit devices
- 5-56. Which of the following materials is/are considered to be rough hardware?
 - Special window hardware
 - Strike plate
 Push plates Strike plates

 - 4. Escutcheon plates
- 5-57. Nails are classified according to what factor(s)?
 - 1. Use and form
 - Length and thickness
 - 3. Composition
 - 4. Holding power
- 5-58. What type of nail is made from finer wire and has a smaller head than the common nail?
 - Box
 - 2. Finishing
 - 3. Plasterboard
 - 4. Roofing
- 5-59. What type of nail has two functions: maximum holding power and easy withdrawal?

 - Roofing
 Finishing
 - 3. Box
 - 4. Duplex

- 5-60. Which of the following characteristics should be included in a description of a roofing nail?
 - Round shafted, galvanized, short body, large head
 - 2. Square shafted, galvanized steel, long body, medium-sized head
 - 3. Specially hardened steel, noncorrosive
 - 4. Triangular shafted, nongalvanized
 - 5-61. The body of what type of nail is usually grooved or spiraled?
 - 1. Plasterboard
 - 2. Concrete
 - 3. Masonry
 - 4. Roofing
 - When used to describe the length of wire nails, a penny is indicated by what symbol?
 - 1. a
 - 2. b
 - 3. c
 - 4. d
- 5-63. The thickness of a wire nail is expressed by what designation(s)?
 - 1. Number only
 - 2. Letter only
 - 3. Both number and letter
 - 4. Size
 - What type of a nail is longer than 6 5-64. inches?
 - 1. Roofing
 - 2. Spike
 - 3. Concrete
 - 4. Plasterboard
 - 5-65. Wood screws are designated according to what factors?
 - Type of head and material
 - 2. Length and thickness
 - 3. Type of thread
 - 4. Body diameter
 - When ordinary wood screws are too short or too light or where spikes 5-66. do NOT hold securely, what type of screw should be used?
 - 1. Lag bolt
 - 2. Special purpose
 - 3. General purpose
 - 4. Thread-cutting

- 5-67. What type of screw is self-tapping?
 - 1. wood
 - 2. Sheet metal
 - 3. Lag
 - 4. Brass
- 5-68. Sheet metal screws can fasten metal up to what maximum thickness?
 - 1. 28 gauge
 - 30 gauge 2.
 - 32 gauge 3.
 - 4. 34 gauge
- 5-69. What type of screws are used to fasten metals up to one-fourth inch thick?
 - 1. Sheet metal
 - 2. Thread-cutting

 - Lag
 Flathead brass

- 5-70. What type of bolts, because of their lack of strength, are used only for fastening light pieces?
 - Carriage 1.
 - 2. Machine
 - 3. Stove
 - 4. Expansion
- 5-71. Of the following types of bolts, which should be used to fasten load-bearing members?
 - 1. Lag
 - 2. Expansion
 - Stove 3.
 - 4. Carriage
- 5-72. What type of bolt has a square section below the head that embeds into the wood to keep the bolt from turning?
 - 1. Carriage
 - 2. Expansion
 - 3. Machine
 - 4. Stove